# Advanced Mirror Material System, Phase I

Completed Technology Project (2014 - 2014)



#### **Project Introduction**

Peregrine will bring together recent laboratory developments and mature the technology so that complete mirror and telescope assemblies can be reliably and robustly produced. This proposed innovation will lower the cost of space mirrors from their current state of the art of  $6.4 \, \text{m/m} \, \text{loss}$  than \$1.6 m/m2 while maintaining low weight, high stiffness and high performance for x-ray, neutron and UV/optical mirrors.

#### **Primary U.S. Work Locations and Key Partners**



Organizations Performing Work	Role	Туре	Location
The Peregrine Falcon	Lead	Industry	Pleasanton,
Corporation	Organization		California
<ul><li>Marshall Space Flight</li></ul>	Supporting	NASA	Huntsville,
Center(MSFC)	Organization	Center	Alabama

Primary U.S. Work Locations	
Alabama	California



Advanced Mirror Material System Project Image

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#### Small Business Innovation Research/Small Business Tech Transfer

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#### **Project Transitions**

June 2014: Project Start



December 2014: Closed out

#### **Closeout Documentation:**

• Final Summary Chart(https://techport.nasa.gov/file/140585)

#### **Images**



Project Image Advanced Mirror Material System Project Image (https://techport.nasa.gov/imag e/131518)

# Organizational Responsibility

# Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

#### **Lead Organization:**

The Peregrine Falcon Corporation

#### **Responsible Program:**

Small Business Innovation Research/Small Business Tech Transfer

# **Project Management**

#### **Program Director:**

Jason L Kessler

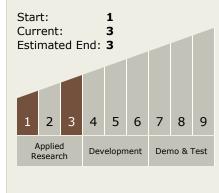
#### **Program Manager:**

Carlos Torrez

#### **Principal Investigator:**

Robert Hardesty

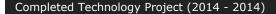
# Technology Maturity (TRL)





#### Small Business Innovation Research/Small Business Tech Transfer

# Advanced Mirror Material System, Phase I





# **Technology Areas**

#### **Primary:**

# **Target Destinations**

The Moon, Mars, Outside the Solar System, The Sun, Earth, Others Inside the Solar System

